

## **Status Report March 2005**

### **Requirements Request**

The first draft of the requirements Document for the sharing of Meta-Data between the IHFS DB and the RAX Archive DB is almost complete. It should be ready for distribution to the RFCs, Regions and OHD/HL in early April.

### **Build OB6**

Plans for AWIPS system are to upgrade the operating system (OS) from RH7.2 to RHE3.0. When OHD/HL was setting up a rax with RHE3.0 in February, it was discovered that the IBM IDS 9.3.UC1 will not work with the new operation system. Since then it has been determined that the IDS would need to be 9.3.UC7 or greater to work in RHE3.0. At this point there are two options, (1) find the \$\$\$ to upgrade the IDS engine or, for OB6, or (2) keep the rax OS at RH7.2 with the goal to move the archive db to postgresSQL as rapidly and reasonably possible. The latest word from OST/Systems Engineering Center (SEC) is they are leaning towards option 2. Moving the archive db to postgresSQL is a significant and complex task. Discussions between OHD, the RAXUM team, and SEC are occurring on how best to proceed.

In the meanwhile, development for ob6 bug fixes and enhancements continues in the RH7.2 OS environment. Currently, testing of the ob6 shefdecoders is underway on the ax1-nhdr system.

### **Build OB5**

The shefdecoders for ob5 have been completed and an interim release is available. The ob5 shefdecoders can be used with the ob4 archive db.

Brenda Alcorn, CBRFC, has successfully resolved the problems with the process\_stage application reported by APRFC. In addition, she has made bug fixes to dcextract and dcparse based on information provided by APRFC.

### **New Information on the RAXUM Web Site**

A new item has been added to the Support/FAQs web page under the "Information" section. The new item is on how to create a new dbspace.

[http://www.nws.noaa.gov/oh/rfcdev/projects/rfcADEMT\\_support.htm](http://www.nws.noaa.gov/oh/rfcdev/projects/rfcADEMT_support.htm)

Several new pieces of documentation should be available in early April on the on-line documentation web page. These new pieces will include documentation for both ob5 shefdecoders and updated documentation for dcextract and dcpase.

[http://www.nws.noaa.gov/oh/rfcdev/archive\\_datadoc/index.html](http://www.nws.noaa.gov/oh/rfcdev/archive_datadoc/index.html)

## **What's Happening - NCRFC**

The NCRFC has been using the rax for most of the flat file archiving for approximately one year, and as of mid February we have switched to archiving on the rax exclusively. This is most beneficial in that we now will not be required to move the archived products periodically due to the limited disk space we previously had available. Current archives begin January 2004, and this summer we will begin a project to backfill additional archive files from previous years.

As of January 2005, the NCRFC has been using the rax verification database and running the verification packages on the rax. The process of switching to the rax for verification went smoothly, with no significant problems.

For the archive database, in addition to posting the raw shef data, we are posting sac-sma and snow17 states as well as runtime mods daily. Limited ofs time-series data is also being posted daily, with an analysis underway to determine a more complete list of what data we want to keep. The remaining data, which uses get\_params is on hold until a parsing bug can be resolved in the program.

One significant issue which has caused some concern is: We have experienced odd behavior with the Informix Level 0 archives. After the system has been running error free for some period, the Level 0 archive will fail with the following message: Server is in an incompatible state or user authentication failed. All other indications are that the database is operating normally, with the exception of its ability to perform a level 0 archive. The only solution identified thus far is to reboot

## **Reminders**

- ✓ Always do a level 0 backups immediately after adding new chunks to an existing dbspaces or when creating a new dspace.
- ✓ Document the changes you are making to the dbspaces by capturing to file and then printing the file, the information from the onstat -d command and an ls -la of the /opt/Informix/links directory. This information will help you recreate the dbspaces you had in the case of major system problem.
- ✓ First line of support is the RFC Support Group

- ✓ The Importance of Backups, Backups, Backups!  
(both of the database and the files system)